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IMPACT MODIFIER FOR THERMOPLASTIC POLYOLEFIN RESIN

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Abstract of JP 11060847 (A)

PROBLEM TO BE SOLVED: To obtain an impact modifier which is the most suitable for imparting impact resistance by mixing an ethylene/propylene random copolymer with a low-density or very low-density random copolymer of ethylene with an α-olefin having the specified number of carbon atoms in a specified ratio. SOLUTION: The ethylene/propylene random copolymer (A) used has a density of 0.850-0.900 g/cm<3> and contains a nonconjugated diene containing 5-25 carbon atoms. The ethylene/4-20C α-olefin random copolymer (B) used has a density of 0.860-0.925 g/cm<3> and a melt flow index of 0.2-30 dg/min and contains 5 wt.% 4-20C α-olefin (e.g. 1-butene) and a nonconjugated diene containing 5-15 carbon atoms. The mixing ratio A/B is (5-95) wt.%/(95-5 wt.%). The modifier is added in an amount of 4-60 wt.% based on a polypropylene composition containing selective additives.